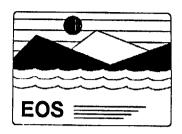


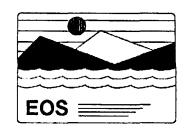
BRIEF STATUS SUMMARY



- VERY SUCCESSFUL CRITICAL DESIGN REVIEW COMPLETED, JANUARY 18 22, 1994
- SINCE 1992 PDR: MASS & DATA RATE STABLE; POWER DECREASED; ALL IN SPEC
- ALL MAJOR SUBCONTRACTS PLACED
- MAJOR PROTOFLIGHT MODEL PROCUREMENTS UNDERWAY
- ENGINEERING MODEL FABRICATION IN PROGRESS
- RISK MITIGATION ACTIONS IN PROGRESS: BEARING TESTS; 2nd ROIC VENDOR
- SCHEDULE DELAYS BEING CORRECTED; AM PROGRAM HAS NINE MONTHS SLACK
- SBRC EXPERIENCING CONTRACT COST GROWTH
 NASA HEADQUARTERS REVIEWING THE PROGRAM
- SBRC WILL SUBMIT A COST AND SCHEDULE REPLAN IN MAY
- FOCUS SHIFTING FROM REQUIREMENTS TRACING/DEVELOPMENT TO PERFORMANCE VERIFICATION AND TESTING



TECHNICAL PERFORMANCE IS SOLID



CALIBRATION CALIBRATION FACILITY IN DEVELOPMENT

PERFORMANCE POSITIVE MARGINS ANTICIPATED FOR FLIGHT UNITS

MATH MODELS PERFORMANCE/STRUCTURAL/THERMAL MODELS COMPLETE

• OPTICS DESIGN FINALIZED, INCLUDING GHOSTING FIXES

• DETECTORS REQUIRED PERFORMANCE DEMONSTRATED

INDIUM BUMP ISSUE OPEN

READOUT INTEGRATED CIRCUIT ISSUE NEARLY RESOLVED

ELECTRONICS ALL BREADBOARDS COMPLETED, EM BOARDS IN FABRICATION

• STRUCT/MECH ALL HARDWARE DESIGNS COMPLETE; MANY EM PIECES RCVD

STRUCTURAL MODEL TO BE VIBRATED IN JULY

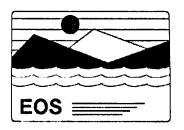
• GSE ALL REQTS SPECIFIED; STE#1 ON SCHEDULE FOR JUNE 94

• SYSTEM I&T INITIAL PLANS & PROCEDURES COMPLETE; EM I&T INITIATED

RRW 29 APR 94



PROJECTED COST OVERRUN ACTIVELY ADDRESSED BY BOTH AM PROJECT AND SBRC



- DESCOPE ACTIONS HAVE BEEN IMPLEMENTED TO CONTROL COSTS
 MORE DESCOPES UNDER CONSIDERATION
- AM PROJECT HAS ASKED SBRC TO DEVELOP A COST REDUCTION AND COST CONTROL PLAN
 AM PROJECT GUIDANCE TO SBRC "INSURE THAT PROPOSAL WILL STAND THE TEST OF TIME",

 I.E., A REALISTIC, SOUND, JUSTIFIABLE PROPOSAL

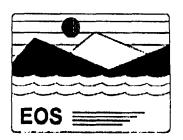
 SBRC WILL SUBMIT THEIR OVERRUN PROPOSAL IN MAY 1994

 Heal Cont 220 -110
- AM PROJECT AND SCIENCE MUST ADD NO NEW CAPABILITIES OR REQUIREMENTS
- AM PROJECT AND SCIENCE CONTINUE TO EXPLORE FALLBACK POSITIONS/DESCOPES
- AT REQUEST OF AM PROJECT, MR. VILLONE, GSFC COMPTROLLER'S OFFICE, CONDUCTED AN AUDIT OF MODIS ON 18 22 APRIL 1994 -- SBRC PROJECTIONS VALIDATED

Best inst town



PAST AND FUTURE COST CONTAINMENT ACTIONS SAVE \$22M



● ACTIONS IMPLEMENTED PRE-CDR -- \$12M

SBRC INITIATED

DELETED ROTATION TABLE IN THERMAL VACUUM CHAMBER, \$2.0M	DECEMBER 1992
DELETED SECOND GROUND-BASED CALIBRATOR, \$1.6M	FEBRUARY 1993
DELETED COOLED SDSM DETECTORS, \$400k	FEBRUARY 1993
RATE REDUCTION IN FY93 OF \$2.0M	OCTOBER 1993
REVISED INTEGRATION &TEST TEAM APPROACH (WAS 4 TEAMS, NOW 2.1), \$2.9M	DECEMBER 1993
GSFC/SBRC JOINT	
DELETED THERMAL ASPECTS OF STRUCTURAL-THERMAL MODEL, \$450k	JULY 1992
ALLOWED 2 DEAD PIXELS PER FOCAL PLANE \ \$230k	NOVEMBED 400
RELAXED REGISTRATION TO 0.2 IFOV (WITH 0.1 GOAL) / \$230K	NOVEMBER 199
ELIMINATED BENCH CHECK UNIT, \$450k	- JANUARY 1993
REDUCED PROBABILITY OF 5-YEAR SUCCESS REQT TO 0.85 (SELECTED GRADE B PARTS), \$1	I.2M MARCH 1993
REUSED STRUCTURAL MODEL MAINFRAME FOR ENGINEERING MODEL, \$600k	 MARCH 1993
DELETED STIMULUS INTERFACE CONTROLLER OF STE#2, \$356k	

● CONTEMPLATED FUTURE ACTIONS - \$10M

SBRC INITIATED

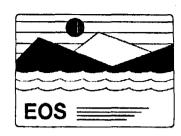
DELETE MOISTURE MONITORING OF GRAPHITE-EPOXY STRUCTURE, \$100k GSFC/SBRC JOINT

DELETE ON-BOARD CALIBRATORS & DOORS FROM ENGINEERING MODEL, \$1.8M USE PORTIONS OF THE EM FOR PFM: MAINFRAME, COOLER, SCAN MIRROR, not ELEX, \$4.0M SCALE BACK SPARES APPROACH, DELETING MANY BUILT UP ASSEMBLIES, \$4.0M MAGNETIC TESTS ON EM ONLY, \$100k

ALL SBRC CHANGE PROPOSAL COSTS HAVE BEEN RESPONSIBLE AND REASONABLE



TOP CONCERNS



- PERFORMANCE WITHIN COST AND SCHEDULE
 - RECEIVING CONTINUOUS ATTENTION; DESCOPES; REPLAN
- PLESSY 1750A MICROPROCESSOR PERFORMANCE NOT AS CLAIMED SBRC VISITED PLESSY RECENTLY, EXPECTS TO SEND REP FOR EXTENDED TESTS
- HgCdTe PV DETECTOR OPERABILITY (INDIUM BUMP CONNECTIONS)
 POSSIBLE FIXES INCLUDE SUBDIVIDING SENSOR CHIP ASSEMBLY OR LONGER INDIUM BUMPS
- SCAN MIRROR BEARING LIFE
 - **BEARING AND LUBRICANT TESTS RUNNING NOW**
- FPA READOUT INTEGRATED CIRCUITS; HUGHES CARLSBAD IS CLOSING IN 1994
 MONITORING HUGHES CARLSBAD CLOSELY; SECOND SOURCE; REPORTS FAVORABLE
- SPECTRAL BAND REGISTRATION
 - **ANALYSIS CONTINUES; TESTING TIED TO ANALYSIS**
- RADIATIVE COOLER TEMPERATURE MARGIN
 - ANALYSIS & TEST; HAVE IDENTIFIED MODIFICATION IF NEEDED
- HgCdTe PC DETECTOR PERFORMANCE (CROSSTALK)
 - MORE ACCURATE MEASUREMENTS, WAIVER ANTICIPATED
- OPTICAL BACKSCATTER (GHOSTING) AND SCATTERED LIGHT
 - REDESIGNED REFRACTIVE OPTICS FOR GHOSTING; STUDYING SCATTER OFF SCAN MIRROR